Lighttoys V4

User Manual

www.lighttoys.cz

Dear customer

Thank you for your purchase of Pyroterra Lighttoys!
This guide contains information about proper use
and handling of our products.

LED the Light be with you!

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Introduction

Lighttoys products are unique juggling equipment based on ultra-bright LED technology. Lighttoys are intended for demanding performers who want to be really seen. Lighttoys are developed directly to the needs of jugglers and tested during productions of Pyroterra shows. Avoid using it in improper ways, to prevent damage. Please read the “Proper use” part.

Proper use

Lighttoys are primarily used for juggling and spinning. Avoid hard falls and knocks! Lighttoys are equipped with a protective silicon caps and polycarbonate tubes against damage during normal juggling and spinning. Lighttoys equipment is not waterproof - do not store it in wet areas. Do not use Lighttoys products with fire equipment.

Product description and instructions can be found in the chapter related to a particular product that you purchased.

Always charge the battery according to the instructions in the chapter “Charging the battery”. Don’t forget to turn OFF the power switch when you are not using lighttoys! If you will turn of your product only by remote controller, it will eventually discharge.

We highly recommend you don’t train with your Lighttoys equipment, use it only for your shows and performances. With hard hits you shorten the lifetime of LED technology.

Charging the battery

Every Lighttoys includes its own power cell, so you don't need any external battery, always just recharge. The cell is powerful Li-ion battery or NiMH (in case of Boom props) and must be recharged using Lighttoys charger only. Follow instructions for a particular product. Do not use other chargers, otherwise you will damage your equipment. Recharge time varies by the Lighttoys product and depends on the actual energy level of the battery.

Charging is initiated by connecting your device to the charger and charger to electrical plug. Charger will light with a red diode which indicates that Lighttoys is charging. When the Lighttoys equipment is fully charged, the diode turns green.

Maintenance

We recommend occasionally cleaning protective polycarbonate tubing with a wet cloth. This ensures you always have maximum brightness. Never attempt to disassemble Lighttoys! There are no user serviceable parts inside and any attempt to dismantle will lead to permanent damage of Lighttoys and you will loose any guarantees.

Warranty and Service

All Lighttoys products have 1 year warranty. The warranty does not cover damage due to misuse and neglect of maintenance. However, we offer complete customer service and repairs. In case of damage please contact us at our web site: www.lighttoys.cz. You can send your damaged Lighttoys to our address. If it isn't a warranty repair, we will calculate the repair costs for you.

Whats new in V4

Remote radio control:

The new advanced radio controller enables you to control the color modes of your equipment from much farther distance (up to 30 meters). Your friends or colleagues can change colors and modes right during your performance.

Pairing devices:

The remote controller can be matched with as many Lighttoys equipment as you want. There are many ways to use it: e.g. you can control a group of LED Pois with one remote and a group of LED Sticks with another!

Silicon protective caps:

We have designed heavy-duty silicone protective caps on our Lighttoys pois and staffs to protect you and your equipment.

Longer lifetime:

We have switched to high quality Li-ion batteries for most of our products. The benefits are higher capacity (up to two times), lower weight and no memory effect.

More durable LEDs:

We know how hard it is to find reliable LEDs that can survive the daily duty of juggling equipment. We have asked top manufacturers and tested their samples for 3 months under harsh conditions (beating, vibrations, high/low temperatures and aging test) to select the absolute best LEDs for you!

RC REMOTE CONTROLLER

Dynamic modes:

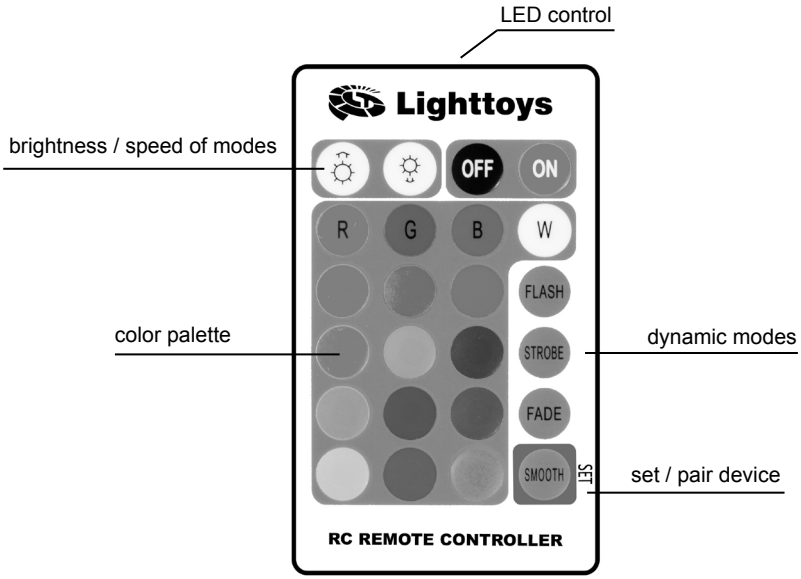
- FLASH - Strobo effect of your chosen color
- STROBE - Changes 7 colors (RGBCMYK)
- FADE - Fades 7 colors (RGBCMYK)
- SMOOTH - Changes 3 colors (RGB)

Pairing devices:

- Just hold the SMOOTH (SET) button when you turn the equipment on. Once it flashes, it's ready to use.

Advice:

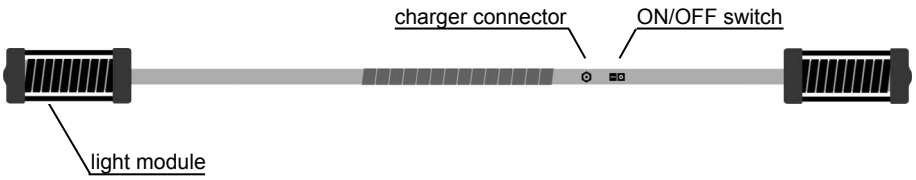
- Lower the brightness to achieve the strobe effect of your chosen color and to extend the battery life.
- RC remote controller gets depleted after some time, so you will need to change its battery. When the red LED control shines, battery is OK, else its time to replace it. Use only these types of batteries - CR2032 (5004LC) or CR2025 (5003LC).



LED STICK

Lighttoys LED Stick is a great option for juggling and staff spinning. Weight and structure is comparable to classical juggling staffs. LED Stick length is ideal for both single staff and double staff spinning. At the staff ends there are light modules covered by polycarbonate tubes and silicone caps to protect from fall damage.

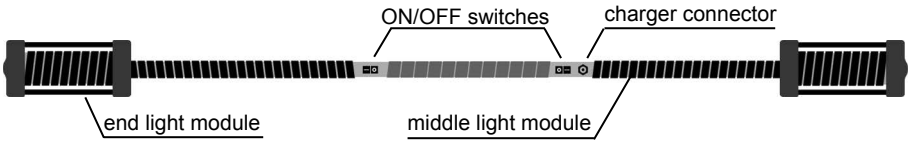
Weight: 660g (23.3oz)
Length: 95 cm (41.3in)
Number of RGB LEDs: 120
Light time: 1 hour at full brightness / 4 hours at the lowest
Charging time: 2 hours
Battery: Li-ion
Control: The staff has ON/OFF switch next to the handle. It is controlled by the RC remote controller. You can choose from a wide range of colors and modes.



FANTASTICK

Specially designed for the greatest light output. Super brightness and special dynamic modes. Fantastick is the most luminous equipment in the Lighttoys product range. Fantastick has two separate lighting parts.

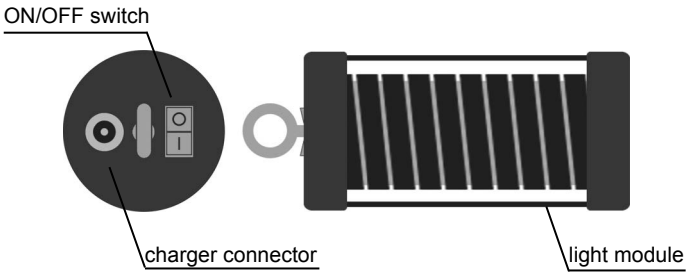
Weight: 900g (31.7oz) / 850g (30.0oz)
Length: 120cm (47.2in) / 100cm (39.4in)
Number of RGB LEDs: 336 / 294
Light time: 1 hours at full brightness / 8 hours at the lowest
Charging: 6 - 8 hours
Battery: Li-ion
Control: The Fantastick has two ON/OFF switches next to the handle - one for the ends and one for the middle part. It is controlled by the RC remote controller. You can match each part to a different controller or both parts to the same. You can choose from a huge range of colors, modes and combinations of each other.



LED POI (SOLID)

LED Pois are a great light alternative to standard Pois. Weight and usage corresponds with commonly used fire pois. LED Pois are protected with a polycarbonate tube and silicone caps against damage. Charge each LED Poi separately.

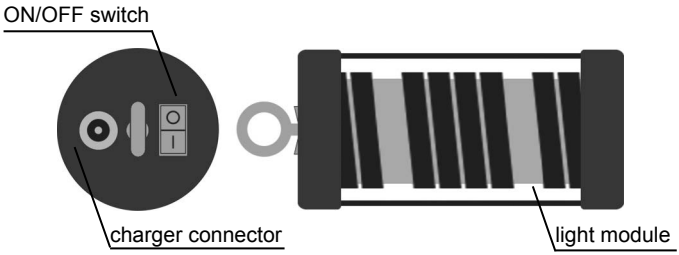
Weight: 170g (6.0oz) / 1 piece
Length: 60 cm rope + 15 cm light module (23.6in + 5.9in)
Number of RGB LEDs: 66 / 1 piece
Light time: 1 hour at full brightness / 8 hours at the lowest
Charging time: 1.5 hour / 1 piece
Battery: Li-ion
Control: Each Poi has ON/OFF switch on top. It is controlled by the RC remote controller. You can choose from a wide range of colors and modes.



ZEBRA POI

Zebra Poi can show more than one color at a time! Ends of Zebra Pois light in opposite color than the middle. Chosen color is in the middle part. Weight and structure corresponds with commonly used Fire Pois. Zebra Pois are protected by a polycarbonate tube and silicone caps against damage. Charge each Zebra Poi separately.

Weight: 170g (6.0oz) / 1 piece
Length: 60 cm rope + 15 cm light module (23.6in + 5.9in)
Number of RGB LEDs: 48 / 1 piece
Light time: 2 hours at full brightness / 12 hours at the lowest
Charging time: 1.5 hour / 1 piece
Battery: Li-ion
Control: Each Poi has ON/OFF switch on top. It is controlled by the RC remote controller. You can choose from a wide range of colors and modes.



LED ROPES

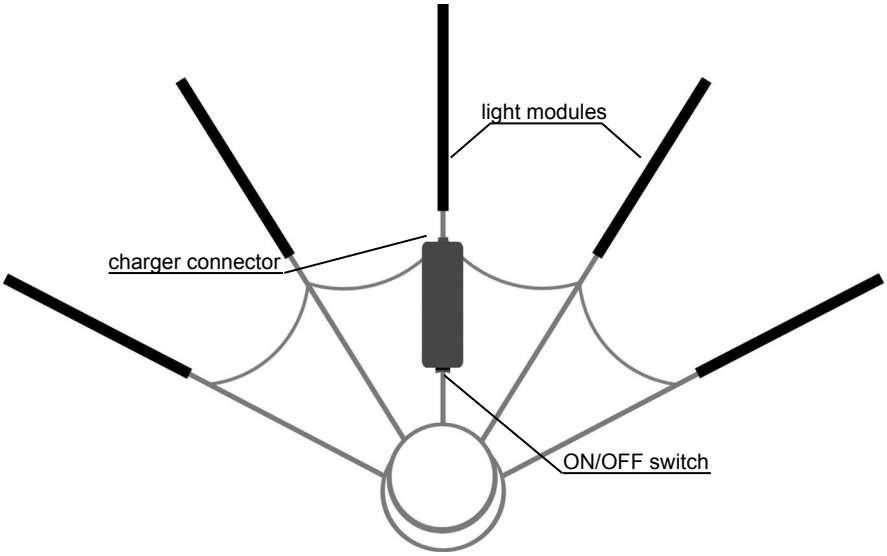
LED Ropes are specially designed for the greatest light effect in poi spinning. Maximum intensity, beautiful effects, and modes are changed by the remote controller. Brightness comparable and greater than the intensity of fire!
LED Ropes are very solid and durable product covered by poly-carbonate tube. LED ropes have 4 display planes construction, so the light output do not drop during spinning and rotation.
Brightness is very strong and does not fluctuate.

Weight: 260g (9.2oz) / 1 piece
Length: 50 cm light module (19.7in)
Number of RGB LEDs: 108 / 1 piece
Light time: 1 hour at full brightness / 8 hours at the lowest
Charging time: 1.5 hour / 1 piece
Battery: Li-ion
Control: Each Rope has ON/OFF switch on the side. It is controlled by the RC remote controller. You can choose from a wide range of colors and modes.

RGB LED FANS

Designed for the greatest light effect in movement. Maximum intensity, beautiful effects. Brightness comparable and greater than the intensity of fire! Each side has different color to get the best light contrast effect. One color is chosen, other side has opposite color.

Weight: 370g (13.1oz) / 1 piece
Length of one rod: 33cm (13.0in)
Holding circle: diameter 11cm (4.3in)
Number of RGB LEDs: 90
Light time: 45mins at full brightness / 6 hours at the lowest
Charging time: 1.5 hour / 1 piece
Battery: Li-ion
Control: Each fan has ON/OFF switch next to battery. It is controlled by the RC remote controller. You can choose from a wide range of colors and modes.



Pyrotechnic equipment (BOOM series)

First of all – these products work with purchased pyrotechnics and you need to know all safety issues of using pyrotechnics in show first, then buy and use this prop. Lighttoys Boom products give you the opportunity to simply and safely start pyrotechnic effects on stage at any time!

No lighter needed:

Forget the need for lighter to start your pyrotechnics – Boom props have a battery attached (rechargeable by Lighttoys charger), that can start any igniter. Now you can start pyro effects on stage by pressing a single button. Just buy professional pyrotechnics with electric fuse included, or you can buy solo electric igniters and attach it to your favorite pyrotechnics. At the device ends there are connectors (device sockets) for wires where you can easily attach the igniter.

Double safety:

To avoid an accidental triggering, two buttons are included to initiate Boom props. You need to arm it first by switching ON/OFF switch.When you connect the pyrotechnic igniters the right way, the red LED will shine. The LED also indicates that the battery is ready (not exhausted). Then by pressing the launch button you start the show. If you hit the trigger without arming first, nothing happens.

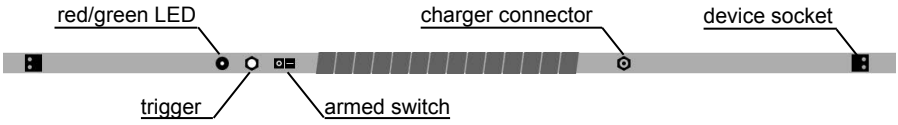
Disclaimer

You should not use pyrotechnics without professional pyrotechnic technician and without proper pyrotechnic safety training. Otherwise you risk safety of yours and your surroundings. You should buy only high quality pyrotechnics from trusted companies in Europe, USA, Australia, … We recommend not to use Chinese pyrotechnics, they tend to explode sometimes. Bad usage or bad pyrotechnics are dangerous.
We guarantee full functionality of our goods, but we are not liable for damage caused by any misuse.

BOOMSTICK

Specially design for the easy pyro initiation. Now you can start pyrotechnics by pressing a single button. It's safe and the most important thing, it's a great effect!
Boomstick has armed switch and trigger. It also has igniter control.

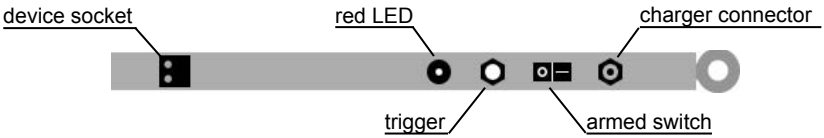
Weight: 410g (14.5oz)
Length: 100cm (39.4in)
Light time: Up to 1 month
Charging time: 1 hour
Battery: NiMH
Control: When you arm the Boomstick, a control LED will shine red. It means the connected side is properly connected to the igniter. Please test both igniters separately, so you know that none of them is faulty.



BOOMPOI

Specially design for the easy pyro initiation. Now you can start pyrotechnics by pressing a single button. It's safe and the most important thing, it's a great effect!

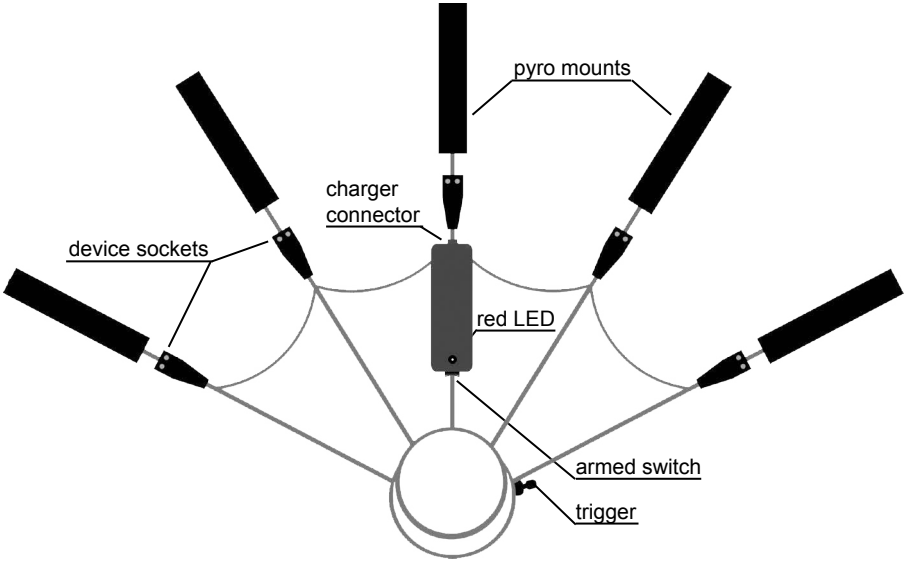
Weight: 200g (7.1oz) / 1 piece
Length: 28cm (11.0in)
Light time: Up to 1 month
Charging time: 1 hour / 1 piece
Battery: NiMH
Control: Each Poi has armed switch and trigger. When the red LED is shining the Boompoi is armed. Then just press the launch button.



BOOM FANS

Specially design for the greatest pyro output. Now you can start pyrotechnics by pressing a single button. It's safe and the most important thing, it's a great effect! You can attach up to 5 pieces of pyrotechnics on 1 fan.

Weight: 380g (13.4oz) / 1 piece
Length of one rod: 31cm (12.2in)
Holding circle: diameter 11cm (4.3in)
Light time: Up to 1 month
Charging time: 1 hour / 1 piece
Battery: NiMH
Control: Each fan has armed switch and trigger. When you arm the Boom fans, a control LED will shine red. It means the connected side is properly connected to the igniter. Please test each igniter separately, so you know that none of them is faulty.



Thanks for your interest!

Team Pyroterra Lighttoys

wishes you many hours
of spinning enjoyment...

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